

10/15/70

Twin-Stage On-line P.I. Stereo Comparator

STAT The Twin-Stage On-line P.I. Stereo Comparator (TSC),
built by [redacted] and delivered to the Center
in October 1969, is ^{currently undergoing extensive test & evaluation.} The TSC is designed to permit a photo interpreter
to measure, in stereo, small distances on film chips.
The viewing system consists of a modified [redacted] STAT
[redacted] High Power Stereo Viewer providing a magnification
range of approximately 8x to 200x. STAT

Independently controlled high intensity tungsten
iodide lamps provide illumination for each leg of the
stereo viewing system. Cold cathode lamps mounted
beneath the stages provide general illumination. Each of
the x-y stages is capable of 6" x 6" (152 mm x 152 mm) of
motion. Precision lead screws with optical shaft encoders
make possible accurate measurements between selected
points on the film chips. Signals from the encoders are
processed and converted into a format acceptable for
on-line computer use by an associated data acquisition
system.

Cost of the prototype instrument, including
the data acquisition system, was [redacted] STAT
A subsequent
modification to the instrument (addition of handwheels
for x-y fine positioning) raised this to [redacted] STAT